

UNITED STATES PATENT OFFICE.

REUBEN L. ALLEN, OF PROVIDENCE, RHODE ISLAND.

SPRING-CHECK.

SPECIFICATION forming part of Letters Patent No. 498,099, dated May 23, 1893.

Application filed December 7, 1892. Serial No. 454,366. (No model.)

To all whom it may concern:

Be it known that I, REUBEN L. ALLEN, a citizen of the United States, and a resident of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Spring-Checks, of which the following is a specification.

My invention relates to an improved check to prevent the excessive extension of a spiral spring, so as to cause the breaking or weakening of the same; and it consists in the employment of an elongated partitioned link, for engagement with oppositely moving check links, attached to the ends of the spring, as hereinafter fully set forth.

In the accompanying drawings:—Figure 1, represents a side view of a spiral spring provided with my improved check, as applied for the purpose of a hitching halter. Fig. 2, represents an enlarged longitudinal section of the same. Fig. 3, represents a partial section showing the spring in its fully extended condition. Fig. 4, represents a face view of the partitioned link, and Fig. 5, an edge view of the same. Fig. 6, represents a transverse section taken in the line 6, 6, of Fig. 4.

In the accompanying drawings, A represents the rope of the halter, attached to the

ring *b*, which is held by the elongated check link B, the end *a* of the spring C being secured to the said link in any suitable manner. The opposite end *c*, of the spring is in like manner secured to the check link D, and to the link D is secured the spring clip E, for attaching the halter. The check links B and D, are held in engagement with the separate slots *d* and *e*, of the intermediate elongated link F, the said slots being separated from each other by means of the narrow partition *f*, thus causing the links B and D to move in separate paths, whereby the end collision of the said links B and D will be prevented, and the spring C may be extended for its full working length without danger of exceeding its proper limit of elasticity.

I claim as my invention—

The combination with the spiral spring, and the opposite check links attached to the spring, of the intermediate link provided with the partition forming separate slot openings for the traverse of the opposite links, substantially as described.

REUBEN L. ALLEN.

Witnesses:

SOCRATES SCHOLFIELD,
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